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Dairy-Herd-Improvement Letter

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# NUMBER OF NATION'S DAIRY CATTLE BEING BRED ARTIFICIALLY

During 1962, 7,748,687 cows, or 41.4 percent of the total cows and heifers 2 years old and over kept for dairy purposes, were bred artificially. This is an increase of over 265,000 cows over the comparable figure for the year 1961. This total may include a small proportion of beef cattle since no distinction was made of animals bred to beef bulls.

During the year the number of AI organizations operating studs decreased from 56 to 51. The number of dairy bulls which were in service during 1962 was 3,158, as compared to 2,036 in 1961.

Wisconsin continued to lead all States in number of cows bred artificially, with 1,264,006 being bred to dairy sires. The following States reported 50 percent or more of all cows bred artificially to dairy sires: Connecticut, 60.8; New Hampshire, 55.1; Hawaii, 54.5; New Jersey, 54.4; Maine, 53.4; Pennsylvania, 52.9; Wisconsin, 52.1; and Massachusetts, 51.9.

The table on page 3 presents a yearly summary of the scope of AI in the United States. The production statistics in the rightmost portion of the table must be interpreted in terms of (1) the use of daughter-herdmate comparisons rather than daughter-dam comparisons in 1962, (2) yearly variation in number and breed of sires summarized, notably from 1960-1962, and (3) the inclusion of non-AI progeny in summaries prior to 1960.

Issued April 1963

On page 4 is presented the summary of artificial insemination activity by States for 1962. The primary information in this table is the number of cows bred in each of the various States. Cows bred are divided into those bred to dairy bulls and those bred to beef bulls. The number of herds serviced in each State are estimated values. Many organizations do not report herds enrolled; those which do may report herds not active in 1962. Also the number of registered cows bred to dairy bulls gives only totals reported by the AI organizations. A number of units fail to report the number of registered animals. The total cows bred to dairy sires for which registered-non-registered distinction was made was 6,475,921. This yields an overall percentage of registered cows in A. I. of 11.8%.

The rightmost column of the table presented on page 4 represents an estimate of the percentage of milk cows bred by AI to dairy sires. These values will slightly underestimate the percentage of milk cows bred generally by AI in those areas where beef sires were used on dairy cows.

The map on page 7 graphically illustrates the density of artificial insemination in the various States.

On pages 5 and 6 are listed the individual artificial insemination organizations active as of January 1, 1963. For each the number of bulls in service by breed and the total cows bred in 1962 are listed.

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1/ Prior to 1962 sires for which dam and daughter records had been compiled were designated as "proved" sires.

2/ Prior to 1946 cows were reported only on the basis of enrollment.  
3/ Estimated.

74/ Prior to 1960 records of sires in artificial breeding service included

5/ Beginning in 1962, herdmates were used instead of dams in artificial breeding service include records of AI progeny only

TO PRODUCE FROM 1960 TO 1961



STATUS OF ARTIFICIAL-BREEDING PROGRAM  
(January 1, 1963)

State	Studs	Herds 1/	Cows bred in State during 1962			Milk cows in United States 2/	
			to Dairy sires		Beef sires	Total	Cows bred to Dairy sires
			Registered 1/	Total	Total		
	Number	Number	Number	Number	Number	Thousands	Percent
Alabama 3/-----	0	3,800	4,804	46,297	4,539	249	18.6
Alaska-----	1	400	141	1,431	-	3	47.7
Arizona 3/-----	0	150	1,047	12,470	422	54	23.1
Arkansas 3/-----	0	3,700	3,087	27,853	7,664	222	12.5
California-----	5	10,500	28,789	360,716	20,127	881	40.9
Colorado-----	1	2,700	3,540	29,824	4,793	124	24.1
Connecticut-----	1	4,000	9,794	54,106	8,703	89	60.8
Delaware 3/-----	0	900	2,788	9,581	1,628	28	34.2
Florida 3/-----	0	2,700	7,195	91,978	11,460	188	48.9
Georgia 3/-----	0	1,300	5,119	44,809	2,277	221	20.3
Hawaii-----	1	290	462	8,715	57	16	54.5
Idaho 3/-----	0	11,000	6,871	103,632	5,308	217	47.8
Illinois-----	3	52,500	38,654	223,259	52,670	585	38.2
Indiana-----	1	35,000	18,570	156,440	14,196	449	34.8
Iowa-----	1	63,000	21,360	312,482	24,166	888	35.2
Kansas-----	1	17,500	9,618	85,201	15,544	355	24.0
Kentucky-----	1	37,000	16,010	112,581	29,287	544	20.7
Louisiana-----	1	5,700	7,385	63,386	5,630	263	24.1
Maine-----	1	3,500	826	55,501	5,165	104	53.4
Maryland-----	1	11,000	12,949	89,878	4,707	228	39.4
Massachusetts 3/-----	0	4,700	11,240	51,354	8,288	99	51.9
Michigan-----	1	38,000	37,475	318,548	44,909	701	45.4
Minnesota-----	2	89,000	33,362	608,036	56,239	1,406	43.2
Mississippi-----	1	5,600	1,625	36,450	9,941	350	10.4
Missouri 3/-----	0	44,000	8,961	125,294	35,810	673	18.6
Montana 3/-----	0	1,600	960	12,404	5,744	76	16.3
Nebraska 3/-----	0	14,000	5,832	57,785	16,829	315	18.3
Nevada 3/-----	0	90	349	4,793	599	17	28.2
New Hampshire-----	1	3,900	8,287	31,939	3,945	58	55.1
New Jersey-----	1	4,000	8,240	71,813	1,622	132	54.4
New Mexico 3/-----	0	270	846	12,480	1,111	41	30.4
New York-----	1	54,000	100,341	622,050	73,721	1,379	45.1
North Carolina-----	1	16,000	10,266	84,345	4,649	278	30.3
North Dakota 3/-----	0	8,700	1,185	29,782	4,982	290	10.3
Ohio-----	2	71,000	50,056	327,741	47,782	720	45.5
Oklahoma 3/-----	0	1,700	2,582	19,704	2,745	240	8.2
Oregon-----	1	15,000	8,287	65,436	20,942	162	40.4
Pennsylvania-----	6	55,000	110,827	517,005	95,167	978	52.9
Puerto Rico-----	1	1,600	1,491	31,213	-	-	-
Rhode Island 3/-----	0	850	1,210	5,361	904	14	38.3
South Carolina 3/-----	0	1,900	3,913	29,558	3,296	111	26.6
South Dakota 3/-----	0	3,600	2,966	31,780	10,158	256	12.4
Tennessee-----	3	22,000	7,477	92,999	25,506	526	17.7
Texas-----	1	5,500	4,744	75,399	10,851	598	12.6
Utah-----	1	6,200	2,941	50,878	2,154	105	48.5
Vermont 3/-----	0	8,700	11,611	123,322	13,238	285	43.3
Virginia-----	1	14,000	18,252	96,782	11,733	363	26.7
Washington-----	2	23,000	10,345	120,637	42,492	268	45.0
West Virginia 3/-----	0	5,500	3,310	22,203	5,070	126	17.6
Wisconsin-----	6	75,000	93,553	1,264,006	123,658	2,426	52.1
Wyoming 3/-----	0	1,100	752	6,444	8,578	29	22.2
United States-----	51	862,150	762,295	6,837,681	911,006	18,730	36.5

1/ Estimated.

2/ Statistical Reporting Service estimate of number of cows and heifers 2 years old and over kept for milk.

3/ Buys semen from studs in other States.

ARTIFICIAL-BREEDING ORGANIZATION BULL STUDS, JANUARY 1, 1963

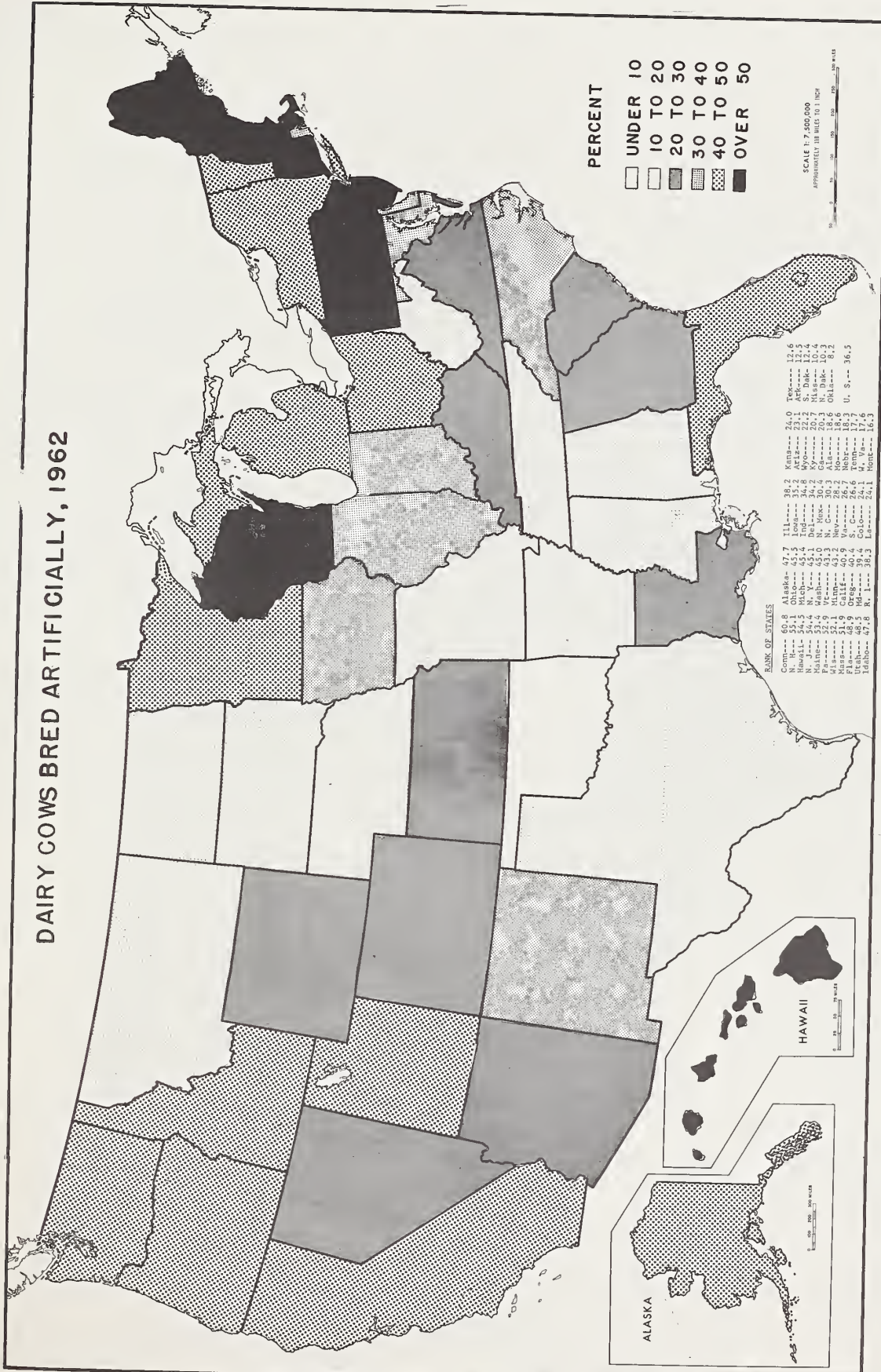
State, Name, and Location of Studs	Number and breed of bulls used									Total cows bred 1962
	Ayr- shire	Brown Swiss	Guern- sey	Hol- stein	Jer- sey	Red Dane	Short- horn	Beef	Total	
ALASKA										
Matanuska Valley Breeders Association, Palmer-----	-	-	-	3	-	3	-	-	6	1,076
CALIFORNIA										
Adohr Farms Inseminating Service, P.O. Box 88, Camarillo--	-	-	14	12	-	-	-	-	26	9,417
Calif. Dairy Breeders, Inc., P.O. Box 188, Davis-----	-	-	8	14	9	-	-	6	37	55,640
Excelsior Breeding Service, 7401 Adams, Corona-----	-	2	1	9	-	-	-	-	12	23,702
Jessup Breeders, 11630 E. Artesia Blvd., Artesia-----	-	2	10	29	5	-	1	5	52	101,313
Pacific Breeders Coop., Inc., 1464 Middle Two Rock Road, Petaluma-----	-	-	6	9	6	-	-	1	22	27,366
COLORADO										
Colorado State University ABS, 809 City Park Ave., Fort Collins-----	-	-	-	3	-	-	1	5	9	14,169
CONNECTICUT										
New England Selective Breeding Assn., Inc., Newton Road, Woodbridge-----	3	6	13	21	11	-	-	5	59	136,705
HAWAII										
Haleakala Ranch Dairy Farm, Makawao, Maui-----	-	-	-	1	-	-	-	-	1	29
ILLINOIS										
Curtiss Breeding Service, Inc., Cary-----	3	5	23	81	15	-	3	49	179	936,194
Northern Illinois Breeding Coop., Rt. 1, Hampshire-----	-	10	13	35	-	-	5	-	63	106,298
Southern Illinois Breeding Association, Breese-----	-	2	6	16	6	-	4	13	47	75,551
INDIANA										
John A. Newman & Sons, R. R. 2, Box 21, Culver-----	-	-	-	6	-	-	-	-	6	687
IOWA										
Eastern Iowa Breeders, Hiawatha-----	4	10	12	25	5	-	4	-	60	165,813
KANSAS										
Kansas ABS Unit, Anderson Hall, Kansas State University, Manhattan-----	4	5	6	20	5	-	4	19	63	51,414
KENTUCKY										
Kentucky Artificial Breeding Assn., 1930 Herr Lane, Louisville 7-----	-	5	9	13	10	-	-	10	47	108,753
LOUISIANA										
L.S.U. Dairy Improvement Center & La. ABC, Inc., Box 8907, LSU, Baton Rouge-----	-	-	5	8	6	-	-	7	26	65,792
MAINE										
Maine Breeding Cooperative, Inc., RFD #1, Augusta-----	1	1	13	14	12	-	3	3	47	55,044
MARYLAND										
Maryland-West Virginia Bull Stud, P.O. Box 555, Frederick-	5	4	9	18	5	-	-	8	49	96,183
MICHIGAN										
Michigan ABC, Inc., P. O. Box 511, East Lansing-----	3	6	11	38	8	3	5	17	91	265,991
MINNESOTA										
Midwest Genes, Inc., Anoka 1/-	-	12	22	76	9	-	11	13	143	464,055
Minnesota Valley Breeders Association, New Prague-----	3	6	15	49	5	-	4	18	100	323,984
MISSISSIPPI										
Mississippi ABC, State College-----	-	-	4	6	9	-	-	6	25	29,005
NEW HAMPSHIRE										
New Hampshire-Vermont Breeding Association, Concord-----	3	-	10	12	11	-	-	-	36	64,985

1/ Formed May 1, 1962 from merger of Consolidated Breeders Cooperative, Iowa Breeders Cooperative, M. F. A. Dairy Breeders, and Nebraska ABA.

State, Name, and Location of Studs	Number and breed of bulls used									Total cows bred 1962
	Ayr-shire	Brown-Swiss	Guern-sey	Hol-stein	Jer-sey	Red Dane	Short-horn	Beef	Total	
NEW JERSEY										
New Jersey Cooperative Breeders Assn., Inc., Annandale----	-	2	10	20	3	-	-	4	39	51,142
NEW YORK										
New York ABC, Inc., Judd Falls Road, Ithaca-----	13	14	24	98	25	-	-	11	185	554,234
NORTH CAROLINA										
N. C. Institutional Breeding Assn., Dept. Animal Science, N. C. State College, Raleigh-----	-	-	-	13	-	-	-	-	13	1,362
OHIO										
Central Ohio Breeding Assn., 1224 Alton-Darby Road, Columbus 4-----	5	9	16	30	10	-	2	-	72	222,724
NOBA, Inc., P. O. Box 1015, Tiffin-----	-	2	12	28	16	-	1	11	70	229,562
OREGON										
Oregon Breeders Association, P. O. Box 48, Corvallis-----	-	-	12	10	11	-	-	4	37	50,217
PENNSYLVANIA										
First Pa. Artificial Breeding Cooperative, Rt. 1, Lewisburg-----	-	-	7	17	-	-	-	13	37	59,080
Lehigh Valley Coop. Farmers, Rt. 1, Allentown-----	4	1	6	13	2	-	-	3	29	32,500
NEPA Artificial Breeding Cooperative, Tunkhannock-----	7	-	10	19	8	-	-	5	49	109,082
Southeastern Pa. ABC, Box 254, Lancaster-----	3	1	12	19	4	-	-	7	46	156,562
Western Pa. ABC, Box 550, Clarion-----	3	5	14	21	10	-	-	9	62	150,672
Zimmerman Dairy Farm, Lehighton-----	-	-	-	4	-	-	-	-	4	2,000
PUERTO RICO										
Puerto Rico Artificial Breeding Assn., P.O.Box 958,Dorado-	-	4	-	11	-	-	-	2	17	17,776
TENNESSEE										
East Tennessee ABA, Route 10, Knoxville-----	2	2	7	11	10	-	3	7	42	40,600
Tennessee Artificial Breeding Association, Brentwood-----	-	4	8	7	9	-	3	5	36	39,139
West Tennessee Artificial Breeding Assn., Yorkville-----	-	-	-	6	7	-	-	6	19	11,348
TEXAS										
Texas A & M Dairy Breeding Center, Dairy Science Dept., Texas A & M College, College Station---	-	-	-	2	-	-	-	4	6	728
UTAH										
Cache Valley Breeding Association, 1950 N. Main, Logan----	2	5	15	18	14	-	4	19	77	77,519
VIRGINIA										
Virginia ABA, Inc., P. O. Drawer 391, Rocky Mount-----	3	-	5	10	6	-	-	4	28	69,435
WASHINGTON										
W. De Jong's Supreme Bull Service, Rt. 1, Monroe-----	-	-	-	3	-	-	-	1	4	2,005
Evergreen Northwest Breeders, Inc., P. O. Box 197, Burlington-----	1	2	10	16	11	-	3	13	56	118,787
WISCONSIN										
American Breeders Service, Madison-----	3	6	19	56	13	-	3	43	143	1,506,365
Associated Breeding Service, Lena-----	-	-	4	11	-	-	-	4	19	20,791
Badger Breeders Cooperative, Rt. 2, P.O. Box 469, Shawano--	-	6	19	26	7	-	-	9	67	405,688
East Central Breeders Assn. Coop., P.O. Box 191, Waupun--	-	5	5	22	-	-	-	7	39	89,006
Piper Brothers Farms, Inc., Watertown-----	4	2	4	25	3	-	4	9	51	108,649
Tri-State Breeders Coop., Westby-----	-	6	17	56	5	-	6	16	106	442,548
UNITED STATES-----	79	152	446	1,090	311	6	74	401	2,559	7,748,687



# DAIRY COWS BRED ARTIFICIALLY, 1962



EXTENSION SERVICE OFFICIALS WORKING WITH DAIRY BREEDING ORGANIZATIONS IN THE STATES

Ala-----R. Sam Jones, Jr., Extension Service, Auburn University, Auburn.  
 Alaska---W. J. Sweetman, Dairy Husbandman, University of Alaska, Palmer.  
 Ariz-----W. R. Van Sant, Extension Service, University of Arizona, Tucson.  
 Ark-----James B. Ragland, Extension Service, University of Arkansas, Little Rock.  
 Calif-----C. L. Pelissier, Extension Service, University of California, Davis.  
 Colo-----D. C. Jordan, Extension Service, Colorado State University, Ft. Collins.  
 Conn-----Robert H. Benson, Extension Service, University of Connecticut, Storrs.  
 Del-----W. R. Hesselstine, Extension Service, University of Delaware, Newark.  
 Fla-----C. W. Reeves, Extension Service, University of Florida, Gainesville.  
 Ga-----J. Nelson Maddux, Extension Service, University of Georgia, Athens.  
 Hawaii---H. M. Vollrath, Department of Animal Science, University of Hawaii,  
 Honolulu.  
 Idaho----George W. Cleveland, Extension Division, University of Idaho, Boise.  
 Ill-----J. G. Cash, Extension Service, University of Illinois, Urbana.  
 Ind-----N. J. Moeller, Dairy Extension Office, Purdue University, Lafayette.  
 Iowa-----W. R. Taylor, Extension Service, Morrill Hall, Iowa State University, Ames.  
 Kans-----Ralph Bonewitz, Extension Service, Kansas State University, Manhattan.  
 Ky-----E. C. Troutman, Extension Service, College of Agriculture, Lexington 29.  
 La-----H. W. Anderson, Agri. Extension Service, Louisiana State University,  
 Baton Rouge 3.  
 Maine----Ralph Corbett, Extension Service, College of Agriculture, Orono.  
 Md-----J. R. Schabinger, Extension Service, University of Maryland, College Park.  
 Mass-----S. N. Gaunt, Extension Service, University of Massachusetts, Amherst.  
 Mich-----L. A. Johnson, Extension Division, Michigan State University, East Lansing.  
 Minn-----R. W. Wayne, Extension Service, University of Minnesota, St. Paul 1.  
 Miss-----G. B. Crain, Extension Service, Mississippi State University, State College.  
 Mo-----E. T. Itschner, Extension Service, University of Missouri, Columbia.  
 Mont-----E. J. Peace, Extension Service, Montana State College, Bozeman.  
 Nebr-----C. W. Nibler, Extension Service, University of Nebraska, Lincoln 1.  
 Nev-----J. D. Schuh, Extension Service, University of Nevada, Reno.  
 N. H-----Hilton Boynton, Extension Service, University of New Hampshire, Durham.  
 N. J-----E. T. Oleskie, Extension Service, College of Agriculture, New Brunswick.  
 N. Mex----B. Ells, Extension Service, New Mexico College of Agriculture, University Park.  
 N. Y-----Raymond Albrechtsen, Extension Service, Cornell University, Ithaca.  
 N. C-----J. D. George, Extension Service, N. C. State College of Agriculture, Raleigh.  
 N. Dak----George Fisher, Extension Service, N. Dak. State University, Fargo.  
 Ohio-----C. D. McGrew, Extension Service, Ohio State University, Columbus 10.  
 Okla-----C. H. Burton, Extension Division, Oklahoma State University, Stillwater.  
 Oreg-----H. P. Ewalt, Extension Service, Oregon State University, Corvallis.  
 Pa-----L. W. Specht, Extension Service, Pennsylvania State University, University Park.  
 P. R-----Cesar A. Calderon, Extension Service, University of Puerto Rico, Rio Piedras.  
 R. I-----J. W. Atwood, Extension Service, University of Rhode Island, Kingston.  
 S. C-----C. G. Cushman, Extension Service, Clemson Agricultural College, Clemson.  
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 Vt-----W. A. Dodge, Extension Service, University of Vermont, Burlington.  
 Va-----V. L. Baldwin, Extension Division, Virginia Polytechnic Institute,  
 Blacksburg.  
 Wash-----Willard Winters, Extension Service, Washington State University, Puyallup.  
 W. Va-----W. L. Northern, Extension Service, West Virginia University, Morgantown.  
 Wis-----G. M. Werner, Extension Service, University of Wisconsin, Madison 6.  
 Wyo-----I. W. Slater, Extension Division, University of Wyoming, Laramie.